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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,880	01/30/2001	Hiroshi Hagane	Q62767	2676

7590 09/08/2003

SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Washington, DC 20037

EXAMINER

LELE, TANMAY S

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 09/08/2003

*[Handwritten number 7]*

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/771,880

Applicant(s)

HAGANE, HIROSHI

Examiner

Tanmay S Lele

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Specification*

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 11, 12, and 13 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention.

4. Regarding claims 1, 11, 12, and 13, it was not understood if "image/character" pertained to both image and character or either image and character. For purposes of examination, it was assumed both were to be transmitted. Appropriate correction is required.

Regarding claim 12, it was not understood if "inputting/outputting" pertained to both operations. For purposes of examination, it was assumed that both were occurring. Appropriate correction is required.

Claims 2 – 10 and 14 – 17 are rejected for reasons of at least those recited for independent claims 1 and 13.

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*Claim Rejections - 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 – 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al (Chen, European Patent Application No. 859,500) in view of Toru (Toru, Japanese Patent Application No. 08-285,086).

Regarding claim 1, Chen teaches of an information search system (Figures 1 – 4) comprising: a terminal having a speech communication function and packet communication function (Figures 1 – 4 and column 2, lines 24 – 49); and a center for selectively performing speech communication and packet communication with said terminal (Figures 1 – 4 and column 2, lines 24 – 49), said center including speech control means for performing speech communication with said terminal during execution of packet communication by said terminal (Figures 1 – 4 and column 2, lines 24 – 49), information search means for searching for information on the basis of the speech information recognized by said speech recognition means (column 4, lines 44 – 51), speech conversion means for converting the speech information of the information searched out by said information search means into a speech signal and outputting the signal to said speech control means (Figures 1 – 4 and column 2, lines 24 – 49), the speech signal from said speech conversion means being transmitted to said terminal by said speech control means (Figures 1 – 4 and column 2, lines 24 – 49).

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Chen does not specifically state speech recognition means for recognizing a speech signal received by said speech control means and sent from said terminal and packet control means for transmitting image/character information of the information searched by said information search means to said terminal by packet communication (though it should be noted that Chen does teach of and packet control means for transmitting character information of the information searched by said information search means to said terminal by packet communication in column 3, lines 39 – 50).

In a related art dealing with searching Internet databases using a mobile device, Toru teaches of speech recognition means for recognizing a speech signal received by said speech control means and sent from said terminal (abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet); and packet control means for transmitting image/character information of the information searched by said information search means to said terminal by packet communication (abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet and Drawings 1 and 20 – 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Chen’s mobile inquiry system, Toru’s voice recognition system, for the purposes of speaking user commands to access information for viewing, as taught by Toru.

Regarding claim 2, Chen in view of Toru, teach all the claimed limitations as recited in claim 1. Both Chen and Toru teach of wherein said information search means searches for information through the Internet (Chen: Column 4, lines 52 – 57 and Figure 1; Toru: abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet).

Regarding claims 3 and 14, Chen in view of Toru, teach all the claimed limitations as recited in claims 1 and 13. Chen further teaches of wherein said system further comprises a table indicating a relationship between a self-station packet communication address of said terminal and a self-station speech communication address (Figure 2 and column 4, lines 44 – 58), and said speech control means looks up said table when speech communication is started, and notifies said packet control means of a self-station packet communication address corresponding to the self-station speech communication address of said terminal which is notified by the calling number identification notifying function (Figure 2 and column 4, lines 44 – 58).

Regarding claims 4 and 15, Chen in view of Toru, teach all the claimed limitations as recited in claims 3 and 14. Chen further teaches of wherein the self-station speech communication address is transmitted from said terminal to said center by packet communication, and the relationship between the self-station packet communication address of the packet communication and the self-station speech communication address transmitted from said terminal is registered in said table (Figure 2 and column 4, lines 44 – 58).°

Regarding claims 5 and 16, Chen in view of Toru, teach all the claimed limitations as recited in claim 1. Both Chen and Toru further teach of wherein a speech communication address of said center is designated by said center with respect to said terminal during execution of packet communication by said terminal (Chen: Figure 2 and column 4, lines 44 – 58; Toru: pages 5 and 6, paragraphs 0041 – 0044 of the “Detailed Description” translation packet), and a packet communication address of said terminal which has performed speech communication with said center is acquired by specifying said terminal from the terminated speech

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communication address (Chen: Figure 2 and column 4, lines 44 – 58; Toru: pages 5 and 6, paragraphs 0041 – 0044 of the “Detailed Description” translation packet).

Regarding claim 6, Chen in view of Toru, teach all the claimed limitations as recited in claim 1. Chen further teaches of wherein said center further comprises communication control means for switching speech communication by said speech control means and packet communication by said packet communication means (Figure 1 and column 3, lines 51 – 58 and column 4, lines 7 – 37).

Regarding claim 7, Chen in view of Toru, teach all the claimed limitations as recited in claim 6. Chen further teaches of wherein said terminal comprises switch means for alternately switching speech communication and packet communication (column 5, lines 23 – 35), and said communication control means performs switching operation in accordance with an output from said switch means (column 5, lines 23 – 35).

Regarding claim 8, Chen in view of Toru, teach all the claimed limitations as recited in claim 6. Chen further teaches of wherein said communication control means automatically performs switching operation under sequence control (column 5, lines 22 – 35).

Regarding claim 9, Chen in view of Toru, teach all the claimed limitations as recited in claim 1. Chen further teaches of wherein said terminal comprises a microphone to which speech transmitted to said center is input (Figure 1 and column 3, lines 41 – 46 and column 4, lines 54 – 57), a speaker for outputting a speech signal transmitted from said center (Figure 1 and column 3, lines 41 – 46 and column 2, lines 46 – 49), a display screen on which character information transmitted from said center is displayed (Figure 1 and column 3, lines 41 – 46), and a key operation section for performing dial-input operation (Figure 1 and column 3, lines 41 – 46) and

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Toru further teaches of a display screen on which character/image information transmitted from said center is displayed (abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet and Drawings 1 and 20 – 23).

Regarding claim 10, Chen in view of Toru teach all the claimed limitations as recited in claim 1. Chen further teaches of wherein said terminal comprises radio means for performing radio communication with a base station to which said center is connected (Figure 1 and starting column 3, line 53 and ending column 4, line 6), speech communication means for performing speech communication with said center (column 4, lines 7 – 37), packet communication means for performing packet communication with said center (column 6, lines 7 – 10 column 5, lines 27 – 35), and communication control means for switching speech communication by said speech communication means and packet communication by said packet communication means (column 5, lines 22 – 35).

Regarding claim 11, Chen teaches of a terminal of an information search system for searching for information by selectively performing speech communication and packet communication with a center (Figures 1 – 4), comprising: a microphone to which speech transmitted to the center by speech communication is input (Figure 1 and column 3, lines 41 – 46 and column 4, lines 54 – 57); a speaker for outputting a speech signal transmitted from the center by speech communication (Figure 1 and column 3, lines 41 – 46 and column 2, lines 46 – 49); a display screen on which character information transmitted from the center by packet communication is displayed (column 3, lines 39 – 50); and a key operation section for performing dial-input operation (Figure 1 and column 2, lines 24 – 29).



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Chen does not specifically state [a display screen on which] image [information transmitted from the center by packet communication is displayed] (note the brackets are used for grammar and that these limitations have been addressed by the cited reference).

In a related art dealing with searching Internet databases using a mobile device, Toru [a display screen on which] image [information transmitted from the center by packet communication is displayed] (abstract and page 4, paragraph 0032 of the "Detailed Description" translation packet and Drawings 1 and 20 – 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Chen's mobile inquiry system, Toru's voice recognition system, for the purposes of speaking user commands to access information for viewing, as taught by Toru.

Regarding claim 12, Chen in view of Toru, teach all the claimed limitations as recited in claim 11. Chen further teaches of further comprising: radio means for performing radio communication with a base station to which the center is connected (Figure 1 and starting column 3, line 53 and ending column 4, line 6); speech communication means for inputting/outputting a speech signal between said speaker and said microphone by performing speech communication with said center (column 2, lines 29 – 38 and column 4, lines 54 – 58); communication control means for switching speech communication by said speech communication means and packet communication by said packet communication means (column 5, lines 23 – 35) and Toru further teaches of packet communication means for outputting image/character information to said display screen by performing packet communication with the center (abstract and page 4, paragraph 0032 of the "Detailed Description" translation packet and Drawings 1 and 20 – 23).

Regarding claim 13, A center of an information search system for searching for information by selectively performing speech communication and packet communication with a terminal (Figures 1 – 4), comprising: speech control means for performing speech communication with said terminal during execution of packet communication by said terminal (Figures 1 – 4 and column 2, lines 24 – 49), information search means for searching for information on the basis of the speech information recognized by said speech recognition means (column 4, lines 44 – 51), speech conversion means for converting the speech information of the information searched out by said information search means into a speech signal and outputting the signal to said speech control means (Figures 1 – 4 and column 2, lines 24 – 49), the speech signal from said speech conversion means being transmitted to said terminal by said speech control means (Figures 1 – 4 and column 2, lines 24 – 49).

Chen does not specifically state speech recognition means for recognizing a speech signal received by said speech control means and sent from said terminal and packet control means for transmitting image/character information of the information searched by said information search means to said terminal by packet communication (though it should be noted that Chen does teach of and packet control means for transmitting character information of the information searched by said information search means to said terminal by packet communication in column 3, lines 39 – 50).

In a related art dealing with searching Internet databases using a mobile device, Toru teaches of speech recognition means for recognizing a speech signal received by said speech control means and sent from said terminal (abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet and Drawings 1 and 20 – 23); and packet control means for

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transmitting image/character information of the information searched by said information search means to said terminal by packet communication (abstract and page 4, paragraph 0032 of the “Detailed Description” translation packet and Drawings 1 and 20 – 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Chen’s mobile inquiry system, Toru’s voice recognition system, for the purposes of speaking user commands to access information for viewing, as taught by Toru.

Regarding claim 17, Chen in view of Toru, teach all the claimed limitations as recited in claim 13. Chen further teaches of communication control means for switching speech communication by said speech control means and packet communication by said packet communication means in accordance with switching operation of the terminal (column 5, lines 23 – 35).

Regarding claim 18, Chen teaches of a center of an information search system for searching for information by performing speech communication and packet communication with a terminal (Figures 1 – 4) comprising: speech control means for performing speech communication with said terminal during execution of packet communication by said terminal (Figures 1 – 4 and column 2, lines 24 – 49), information search means for searching for information on the basis of the speech information recognized by said speech recognition means (column 4, lines 44 – 51) and packet control means for transmitting said information of the information searched by said information search means to said terminal by packet communication (column 3, lines 39 – 50)

Chen does not specifically state speech recognition means for recognizing a speech signal received by said speech control means and sent from the terminal.

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In a related art dealing with searching Internet databases using a mobile device, Toru teaches of speech recognition means for recognizing a speech signal received by said speech control means and sent from said terminal (abstract and page 4, paragraph 0032 of the "Detailed Description" translation packet and Drawings 1 and 20 – 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Chen's mobile inquiry system, Toru's voice recognition system, for the purposes of speaking user commands to access information for viewing, as taught by Toru.

***Citation of Pertinent Prior Art***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Inventor	Publication	Number	Disclosure
Wise et al.	US Patent	5,884,262	Computer Network Audio Access and Conversion System
Imielinski et al.	US Patent	6,240,448	Method and System for Audio Access to Information in a Wide Area Network
Kari et al.	US Patent	6,542,489	Method and Means for Transmitting a Service Page in a Communication System

***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanmay S Lele whose telephone number is (703) 305-3462. The examiner can normally be reached on 9 - 6:30 PM Monday – Thursdays and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on (703) 308-7745. The fax phone numbers for the


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organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

  
Tanmay S Lele  
Examiner  
Art Unit 2684

tsl  
August 26, 2003

  
**NAY MAUNG**  
**PRIMARY EXAMINER**